

Grade 9 Review of Topics

The Line

① $y = mx + b$

Slope / y-int

Graphing

② $ax + by = c$ Two Variable Form

③ $Ax + By + C = 0$ Standard Form

$$m = \frac{\text{rise}}{\text{run}}$$

$$= \frac{\Delta y}{\Delta x}$$

$$= \frac{y_2 - y_1}{x_2 - x_1}$$

Integers \times and \div

$$(+3) \times (+5) =$$

$$(-3) \times (-5) =$$

$$\frac{-6}{+3} \Rightarrow$$

$$\frac{-18}{-9} =$$

$$\frac{+27}{-3} = -9$$

Like Terms = +ve
Different Terms = -ve

Jan 30-12:08 PM

Feb 8-1:19 PM

Integers \times and \div

$$(+3) \times (+5) = +15$$

$$(-3) \times (-5) = +15$$

$$\frac{-6}{+3} \Rightarrow -2$$

$$\frac{-18}{-9} = +2$$

$$\frac{+27}{-3} = -9$$

Like Terms = +ve
Different Terms = -ve

Feb 8-1:19 PM

Addition

a) $(+3) + (+5) =$

b) $(-3) + (-2) =$

c) $(+3) + (-5) =$

d) $(+4) + (-3) =$

e) $(-6) + (+8) =$

Adding Like Terms

- add values
- sign stays the same

Adding Different Terms

- subtract values
- sign of larger

Feb 8-1:26 PM

Addition

a) $(+3) + (+5) = +8$

b) $(-3) + (-2) = -5$

c) $(+3) + (-5) = -2$

d) $(+4) + (-3) = +1$

e) $(-6) + (+8) = +2$

Adding Like Terms

- add values
- sign stays the same

Adding Different Terms

- subtract values
- sign of larger

Feb 8-1:26 PM

Subtraction \square Integers
(Add the Opposite)

$$(+4) - (+6)$$

$$(-3) - (+2)$$

$$(+4) - (-2)$$

$$(+6) - (+2)$$

$$(-4) - (-6)$$

Feb 8-1:36 PM

Subtraction \bar{w} Integers
(Add the Opposite)

$$\begin{aligned} (+4) + (-6) &= -2 \\ (-3) + (-2) &= -5 \\ (+4) + (-2) &= +2 \\ (+6) - (+2) &= +4 \\ (-4) - (+6) &= -10 \end{aligned}$$

Feb 8-1:36 PM

Solve

$$\begin{aligned} \text{i)} \quad \frac{+8}{+2} & \quad \text{ii)} \quad (-6) \times (-4) & \quad \text{iii)} \quad (+6) + (-4) = \\ \text{iv)} \quad (+3) - (-6) & \quad \text{v)} \quad (-2) - (+3) & \quad \text{vi)} \quad \frac{-9}{+3} \end{aligned}$$

Feb 8-1:41 PM

Solve

$$\begin{aligned} \text{i)} \quad \frac{+8}{+2} & \quad \text{ii)} \quad (-6) \times (-4) & \quad \text{iii)} \quad (+6) + (-4) = \\ +4 & \quad +24 & \quad +2 \\ \text{iv)} \quad (+3) + (-6) & \quad \text{v)} \quad (-2) - (+3) & \quad \text{vi)} \quad \frac{-9}{+3} \\ +9 & \quad -5 & \quad -3 \end{aligned}$$

Feb 8-1:41 PM

Hmk Integer Worksheet
q. 1-7 (odds a,c,e...)

Jan 30-11:56 AM